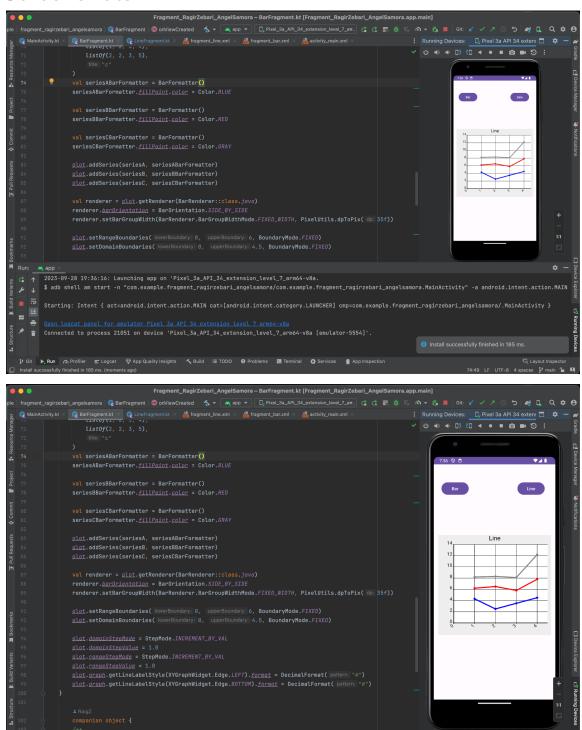
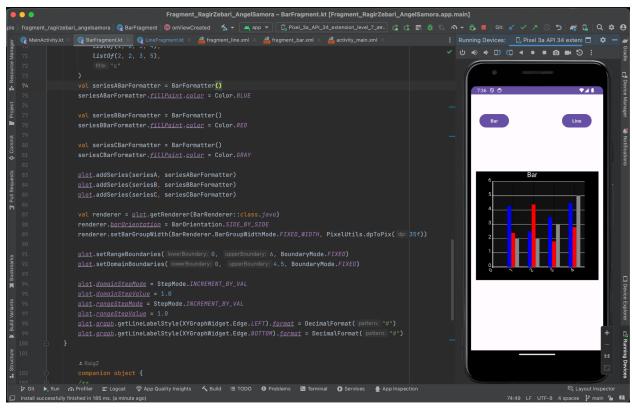
CS481-Assignment2

Screenshots







Video

https://drive.google.com/file/d/1t6z8myfoP86O1RTXcHFbORDv Ui0U8evF/view?usp=drive_link

Source Code

MainActivity.kt

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/bBar"</pre>
```

```
android:text="@string/bar"
      app:layout constraintHorizontal bias="0.081"
  <androidx.fragment.app.FragmentContainerView</pre>
</androidx.constraintlayout.widget.ConstraintLayout>
```

BarFragment.kt

```
import android.graphics.Color
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.fragment.app.Fragment
import com.androidplot.util.PixelUtils
import com.androidplot.xy.BarFormatter
import com.androidplot.xy.BarRenderer
import com.androidplot.xy.BarRenderer
import com.androidplot.xy.BarRenderer.BarOrientation
```

```
import com.androidplot.xy.BoundaryMode
import com.androidplot.xy.XYGraphWidget
import com.androidplot.xy.XYSeries
import java.text.DecimalFormat
  private lateinit var plot: XYPlot
  override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
           param1 = it.getString(ARG PARAM1)
          param2 = it.getString(ARG PARAM2)
  override fun onCreateView(
      inflater: LayoutInflater, container: ViewGroup?,
      savedInstanceState: Bundle?
  override fun onViewCreated(view: View, savedInstanceState: Bundle?) {
```

```
listOf(2.4, 4.4, 1.8, 2.8),
      val seriesABarFormatter = BarFormatter()
      seriesABarFormatter.fillPaint.color = Color.BLUE
      val seriesBBarFormatter = BarFormatter()
      seriesBBarFormatter.fillPaint.color = Color.RED
      val seriesCBarFormatter = BarFormatter()
      seriesCBarFormatter.fillPaint.color = Color.GRAY
      plot.addSeries(seriesB, seriesBBarFormatter)
      renderer.setBarGroupWidth(BarRenderer.BarGroupWidthMode.FIXED WIDTH,
DecimalFormat("#")
        * @param param1 Parameter 1.
```

```
# @param param2 Parameter 2.
    * @return A new instance of fragment BarFragment.
    */
    // TODO: Rename and change types and number of parameters
    @JvmStatic
    fun newInstance(param1: String, param2: String) =
        BarFragment().apply {
            arguments = Bundle().apply {
                putString(ARG_PARAM1, param1)
                      putString(ARG_PARAM2, param2)
                      }
            }
}
```

fragment_bar.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:ap="http://schemas.android.com/apk/res-auto"
    tools:context=".BarFragment">
        <com.androidplot.xy.XYPlot
        android:id="@+id/plotBar"
        style="@style/APDefacto.Dark"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        ap:title="Bar"
        ap:marginBottom="-30dp"
        ap:marginTop="20dp"
        ap:paddingRight="30dp"
        ap:paddingRight="30dp"
        ap:lineLabels="left|bottom"
        ap:domainLineColor="@color/ap_black"
        ap:rangeLineColor="@color/white" />
```

LineFragment.kt

```
package com.example.fragment_ragirzebari_angelsamora

import android.graphics.Color
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.View
import android.view.ViewGroup
import androidx.fragment.app.Fragment
import com.androidplot.xy.BoundaryMode
import com.androidplot.xy.LineAndPointFormatter
```

```
import com.androidplot.xy.SimpleXYSeries
import com.androidplot.xy.XYPlot
import java.text.DecimalFormat
          param1 = it.getString(ARG PARAM1)
          param2 = it.getString(ARG PARAM2)
  override fun onCreateView(
      savedInstanceState: Bundle?
      val view = inflater.inflate(R.layout.fragment line, container, false)
  override fun onViewCreated(view: View, savedInstanceState: Bundle?) {
```

```
val seriesAFormatter = LineAndPointFormatter()
      seriesAFormatter.linePaint.color = Color.BLUE
      seriesAFormatter.vertexPaint.color = Color.BLUE
       seriesAFormatter.fillPaint.color = Color.TRANSPARENT
      seriesAFormatter.linePaint.strokeWidth = 10f
      seriesAFormatter.vertexPaint.strokeWidth = 20f
      val seriesBFormatter = LineAndPointFormatter()
      seriesBFormatter.linePaint.color = Color.RED
       seriesBFormatter.vertexPaint.color = Color.RED
      seriesBFormatter.fillPaint.color = Color.TRANSPARENT
      seriesBFormatter.vertexPaint.strokeWidth = 20f
      seriesCFormatter.linePaint.color = Color.GRAY
       seriesCFormatter.vertexPaint.color = Color.GRAY
       seriesCFormatter.linePaint.strokeWidth = 10f
      seriesCFormatter.vertexPaint.strokeWidth = 20f
      plot.addSeries(seriesA, seriesAFormatter)
      plot.addSeries(seriesC, seriesCFormatter)
      plot.setDomainBoundaries(0, 4.5, BoundaryMode.FIXED)
DecimalFormat("#")
```

fragment_line.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:ap="http://schemas.android.com/apk/res-auto"
    tools:context=".LineFragment">

        <com.androidplot.xy.XYPlot
            android:id="@+id/plotLine"
            style="@style/APDefacto.Light"
            android:layout_width="fill_parent"
            android:layout_height="fill_parent"
            ap:title="Line"
            ap:marginBottom="-30dp"
            ap:marginTop="20dp"
            ap:domainLineColor="@color/ap_black"
            ap:rangeLineColor="@color/ap_black"
            ap:lineLabelTextColorTop="@color/ap_black"
            ap:gridBackgroundColor="@color/ap_white"
            ap:lineLabels="left|bottom" />
</frameLayout>
```

build.gradle.kts (:app) dependencies

```
implementation("com.androidplot:androidplot-core:1.5.10")
```